FIG.1

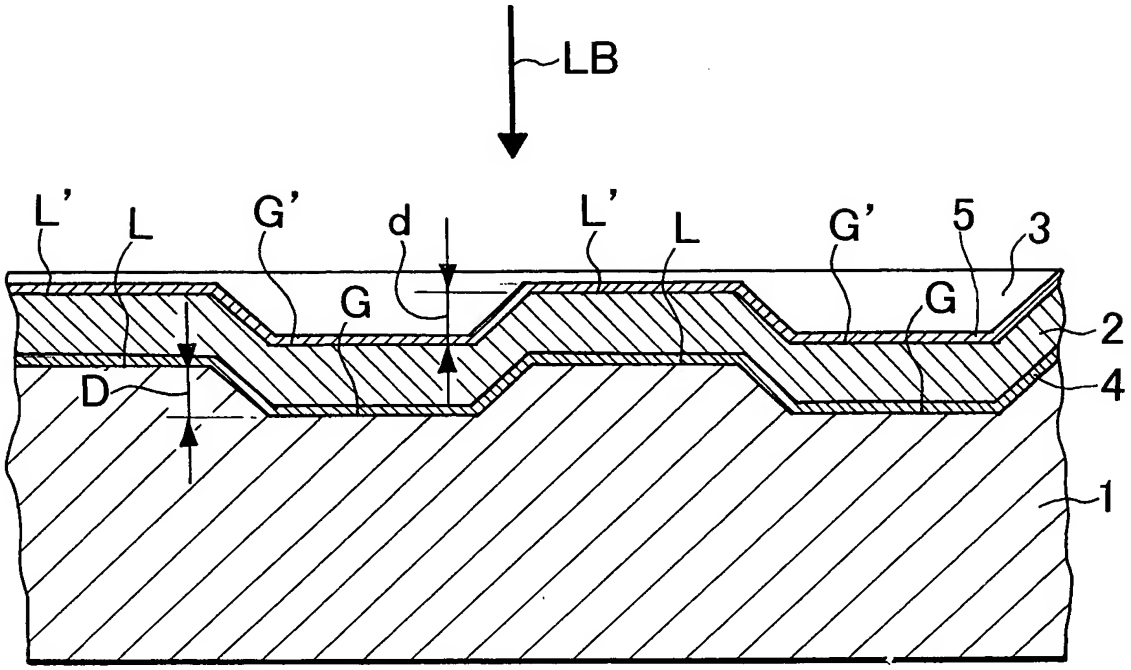


FIG.2

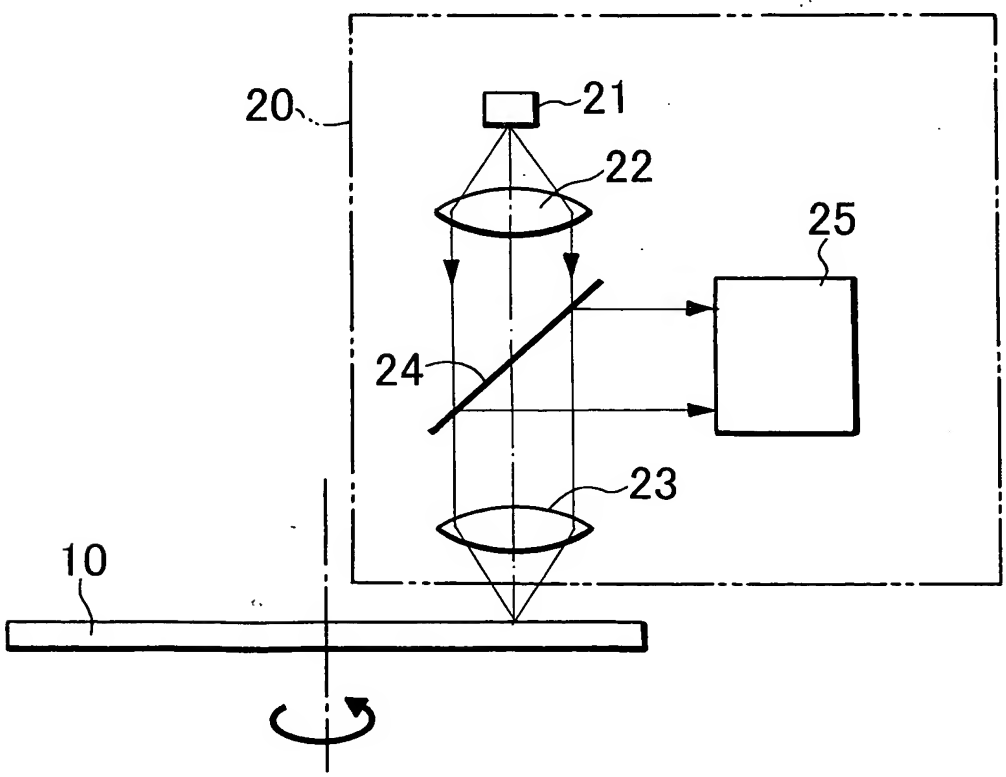


FIG.3

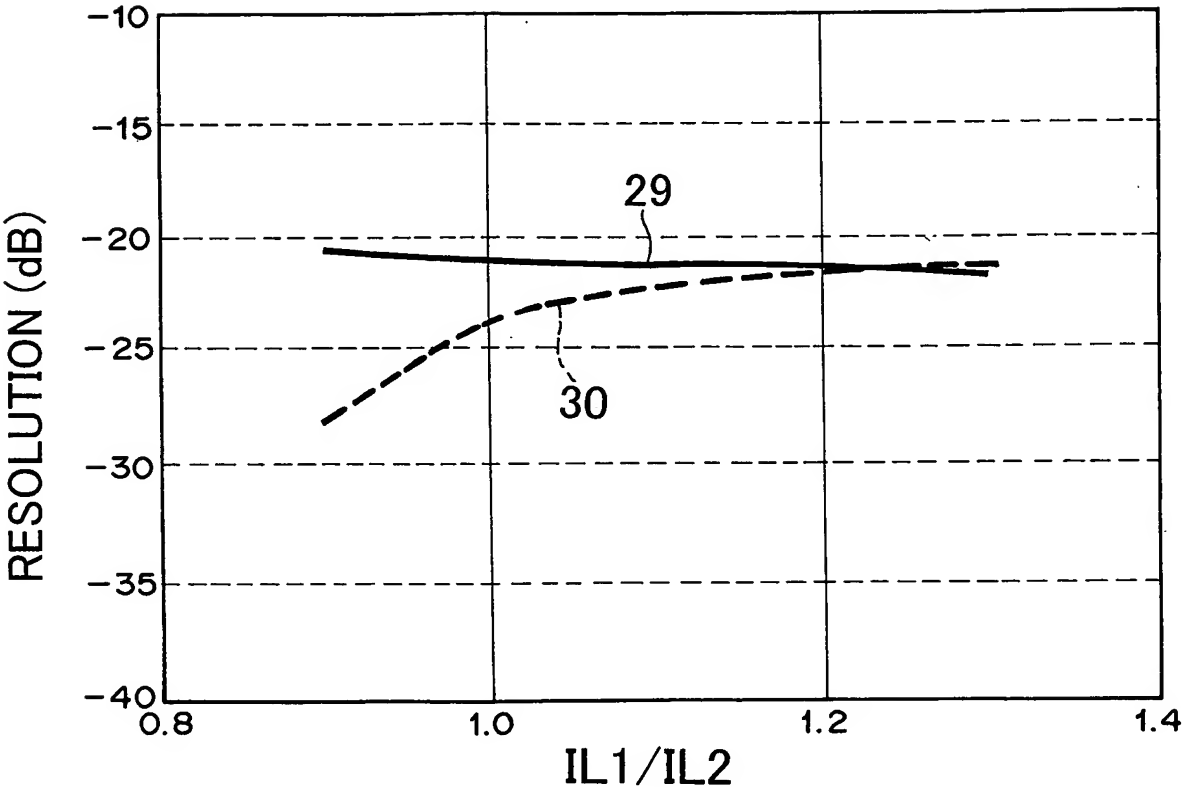


FIG.4

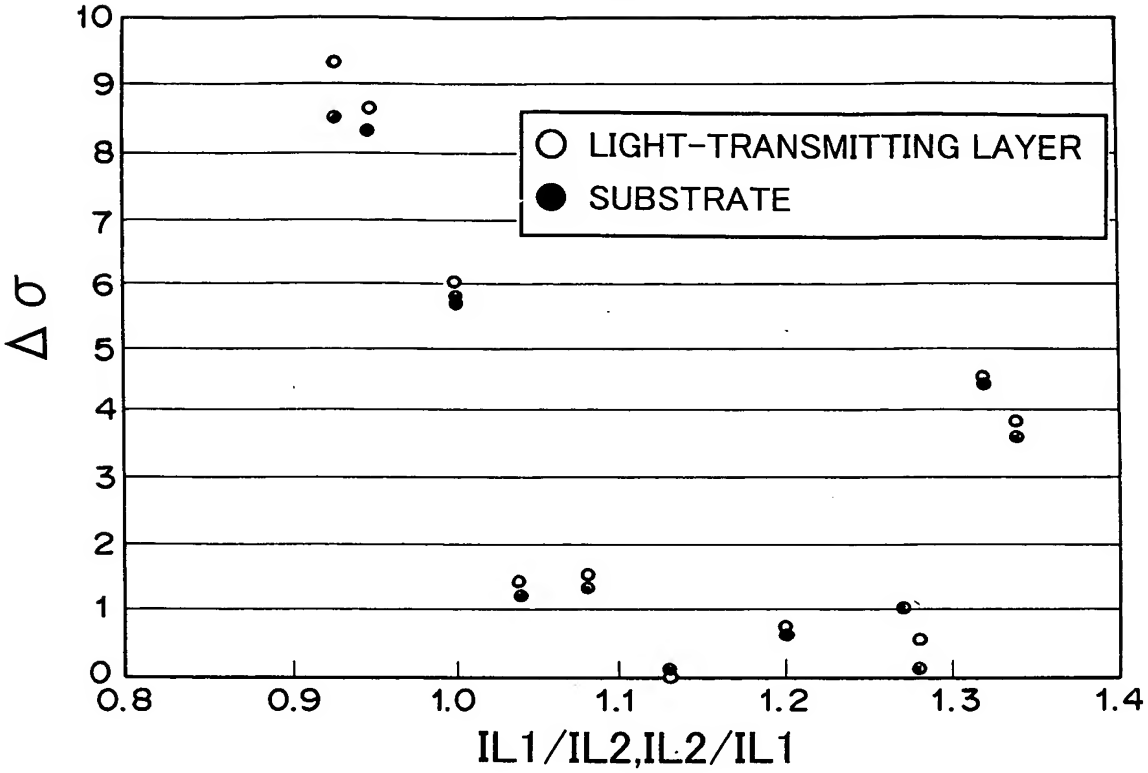
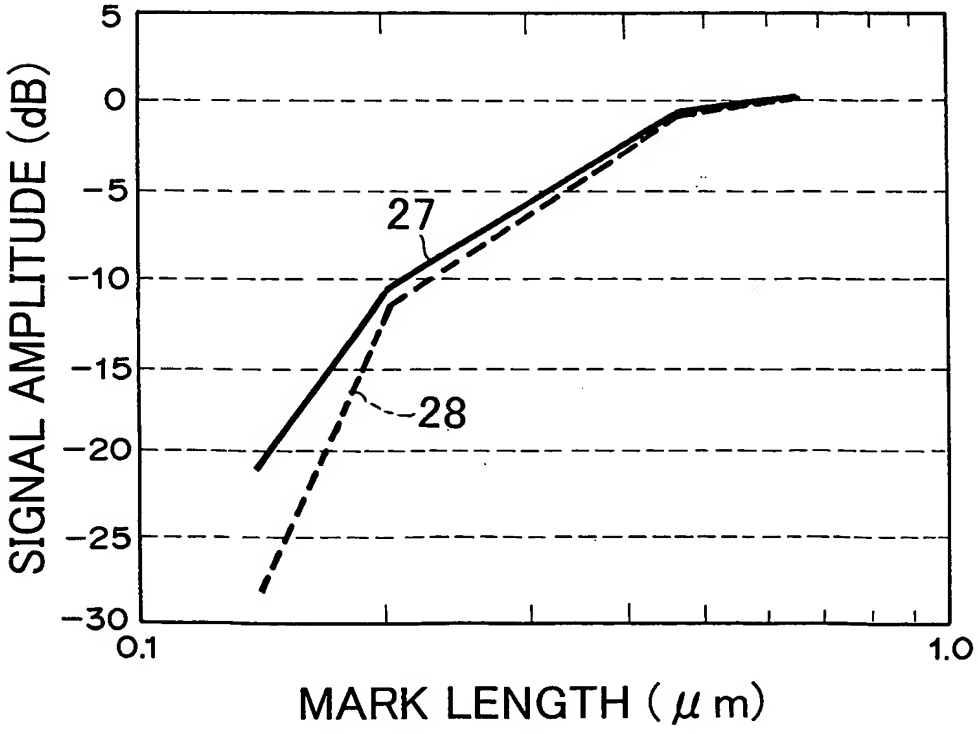

10
9
8
7
6
5
4
3
2
1
0
Δσ
LIGHT-TRANSMITTING LAYER
SUBSTRATE
0.8
0.9
1.0
1.1
1.2
1.3
1.4
IL1/IL2,IL2/IL1

FIG.5


5
0
-5
-10
-15
-20
-25
-30
SIGNAL AMPLITUDE (dB)
27
28
0.1
1.0
MARK LENGTH (μm)